TE-PGFPLUS Hi-Vol One-Point Flow Check Data Form
Site Information Full Site Name: BUMS Maybor - Port of Indiana Site Abbreviation: BHO Sampler Serial No.: 100 2 Field Technician Name: Fate Maik, Kahiekedy, With Hamilton Date: 11.30 CST Site Conditions & Sensor Checks *allow Temperature/Pressure standard to acclimate for 10 minutes before reading Temp/Pressure Standard Make/Model: PeltaCal-DC1 Temp/Pressure Standard Serial No.: 179112 Temp/Pressure Standard Certification Date: 2/2/2 Tamb transfer standard (°C) 22.8 Tamb PUFPLUS (°C) 23.3 (Tamb transfer standard - Tamb PUFPLUS) = -0.5 °C Is the PUFPLUS Temperature sensor within ±2°C of the Transfer Standard? YES NO (circle one) Pamb transfer standard (mmHg) 344 Pamb PUFPLUS (mmHg) 345 (Pamb transfer standard - Pamb PUFPLUS) = 1 mmHg Is the PUFPLUS Pressure sensor within ±10mmHg of the Transfer Standard? YES NO (circle one) If both of the above are YES, sensor check is complete. Proceed with flow check. If either of the both is NO, use the TE-PUFPLUS Operator's Manual to troubleshoot and retry the sensor check. If the issue persists, add a calibration point to the faulty sensor as described in the SOP in Section 10.2.3. Note that a calibration was done here:
Calibration Orifice/Manometer Information Orifice Make/Model: GVASCOY/ TSCM Orifice Serial No.: 624 Orifice Slope "morifice": 10,46067 Orifice Intercept "borifice": -0.16706 Orifice Certification Date: 2/4/21 *if using a "U" tube manometer, write "U-tube" in Make/Model and leave the other spaces blank Manometer Make/Model: Dwyer 475 Man Manometer Serial No.: 007947 Manometer Certification Date: 2/4/21
 *flow check is to be performed after the 5th scheduled sample run of each month 1. Set up the sampler as if performing a flow calibration with certified orifice and manometer. No sample media should be inside the module. Attach the orifice tubing to the manometer instead of the AutoCal sensor. 2. Turn on the hi-vol's motor at 0.225 m³/min for 10-15 minutes: a. In the PUFPLUS interface select "F3" for "Setup", navigate to "Diagnostics" and select "Ent", navigate to "MTR Control" and select "Ent", navigate to "Qsys" and select "Ent", navigate to "MTR Setpoint" and select "Ent", enter 225 (units are liters/min) as the setpoint and select "Ent". 3. Record the Manometer Pressure. PManometer (inH20)
T _{amb} should be in degrees Kelvin: T _{amb} (°C) + 273 = T _{amb} (K) 5. Calculate the percent difference between 0.225 m³/min and Q _{Manometer} : Percent Difference = 100(1 - (Q _{Manometer} = 0.225)) = 0.4 % 6. Is the Percent Difference ≤±10%? NO (circle one) a. If YES, flow check is complete. b. If NO, use the TE-PUFPLUS Operator's Manual to troubleshoot and retry the flow check. If the issue persists, the sampler will

лееd to be recalibrated. Contact the Project Leads.